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APPLICATION NO). F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/434,300	7590	11/05/1999 05/21/2003	тоѕнініко тѕилі	684.2932	3785
		LLA HARPER &	EXAMINER		
	EFELLER I RK, NY 10			NATIVIDAD, PHILIP SANA	
				ART UNIT	PAPER NUMBER
				2877	
				DATE MAILED: 05/21/2003	, }

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)					
		09/434,300	TSUJI, TOSHIHIKO						
	Office Action Summary	Examiner		Art Unit					
		Phil Natividad		2877					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)	1) Responsive to communication(s) filed on 04 March 2003.								
2a)⊠	This action is FINAL . 2b) This action is non-final.								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)⊠ Claim(s) <u>4-17</u> is/are pending in the application.									
4a) Of the above claim(s) is/are withdrawn from consideration.									
5)	5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>4-17</u> is/are rejected.								
7)	7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement. Application Papers									
9) The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)[∑	a)⊠ All b)□ Some * c)□ None of:								
•	1. Certified copies of the priority documents have been received.								
2	2. Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)	-		•					
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	· ·	PTO-413) Paper No(s) atent Application (PTO-152)					
J.S. Patent and Trad PTO-326 (Rev.		on Summary		Part of Paper No. 8					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 13, 6, 14-17, and 10-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Sekine (US 2003/0,043,462). As to claim 13, Sekine discloses diffractive surface (25b or 26b) with alignment mark therein (25a or 26a) producing phase difference of length corresponding to integer multiple of light wavelength (para. 15; cl.10). Further as to claim 6, note para. 46-47. Further as to claim 14, note that with the disclosed alignment mark (25a or 26a) at an integral wavelength multiple, inherently there is at least a second wavelength which does not have an integral multiple pathlength. Further as to claims 15-17, note Figs. 3-4. Further as to claims 12 and 10-11, note Figs. 1-4 and para. 42-46.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 4-5 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine.

As applied to claim 13 above, Sekine discloses applicant's invention except without expressly disclosing, as to claim 7, a metal ring holding the substrate. However, Figs. 2-3 and para. 42, 45 disclose a barrel 21 holding the substrate, and it would have been notoriously well-known and obvious to one of ordinary skill to make the barrel (i.e. holding ring) of metal, for motivation of durability of construction.

As applied to claims 14 and 13 above, Sekine discloses applicant's invention except without expressly disclosing, as to claims 4 and 5, a second wavelength. However, it is notoriously well-known in the art to use a use a second, typically longer and/or lower power wavelength for e.g. pre-alignment of which Official Notice is taken, for motivation of avoiding photosensitive damage prior to main photolithographic etching.

As to claims 8-9, Sekine discloses alignment mark at center as applied to claim 15 above and it would have been obvious to one of ordinary skill in the art to use a metal ring for motivation as applied to claim 7 above; further obvious to pre-align, for motivation as applied to claims 4-5 above.

Response to Arguments

5. Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this

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Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner can be directed to Phil Natividad whose telephone number is 703-306-5944. The examiner can normally be reached on Tuesday through Friday and alternating Mondays; and supervising patent examiner Frank G. Font can be reached at 703-308-4881.

In view of delays in mail delivery in recent days, we at the USPTO would like to encourage you to communicate with the USPTO via facsimile. Facsimile transmissions may be used for correspondence as set forth in 37 CFR 1.6 such as: amendments, petitions for extension of time, authorization to charge a deposit account, an IDS, terminal disclaimers, a notice of appeal, an appeal brief, CPAs under 37 CFR 1.53(d), and RCEs.

PTO Form 2038 should be used when authorizing payment by credit card; this form is maintained separate from the file to ensure confidentiality.

The USPTO has recently installed server software that enables us to automatically receive facsimile transmissions and route them to the appropriate groups. No special equipment is needed by our customers to use this system other than a regular facsimile machine. Each Technology Center has its own facsimile numbers associated with our server for Official replies to non-final Office actions and for Official replies to final Office actions. In addition, each Technology Center has a Customer Service Center on our server system, and can answer any general application status questions you might have, can provide Examiner information, and answer paper queries.

The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 or 703-308-7722 for regular communications and 703-872-9319 or 703-308-7722 for After Final communications.

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Tech Center 2800 Customer Service is at 703-306-3329 or 703-872-9317. Any inquiry of a general nature or relating to the status of this application or proceeding can also be directed to the receptionist whose telephone number is 703-308-0956.

Phil Natividad Patent Examiner

psn

May 15, 2003

FRANK G. FONT SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800